AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

Listing of Claims:

Claim 1 (Original): A color image processing apparatus for detecting and correcting fault

pixels in a color image pickup device having a plurality of pixels each with a correspondingly

disposed filter device of color filter having a plurality of filter devices respectively of

predetermined colors, said color image processing apparatus comprising:

means for detecting fault pixels by establishing a correlation among pixel signals along an

arrangement of consecutive ones of identical color; and

means for correcting pixel signals corresponding to the fault pixels detected at the fault

pixel detecting means.

Claim 2 (Original): The color image processing apparatus according to claim 1, wherein

said fault pixel detecting means detects fault pixels by correlating pixel signals along an

arrangement of spatially consecutive filter devices of identical color.

Claim 3 (Currently amended): The color image processing apparatus according to claim

1, wherein said fault pixel detecting means operates processes pixel signals of a plurality of

pixels corresponding to a plurality of adjoining filter devices of colors which are not identical to

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produce operation-generated color over a plurality of pixels and establishes a correlation among

pixel signals along an arrangement of spatially consecutive ones of identical operation-generated

color to detect fault pixels.

Claim 4 (Currently Amended): The color image processing apparatus according to claim

1, wherein said fault pixel detecting means detects first fault pixels by correlating pixel signals

along an arrangement of spatially consecutive filter devices of identical color and in addition then

operates processes pixel signals of a plurality of pixels corresponding to a plurality of adjoining

filter devices of colors which are not identical to produce operation-generated color so as to

detect second fault pixels by correlating pixel signals along an arrangement of spatially

consecutive ones of identical operation-generated color.

Claim 5 (Original): The color image processing apparatus according to claim 4, wherein

said fault pixel detecting means excludes the first fault pixels from information to be subjected to

detection at the time of detecting the second fault pixels.

Claim 6 (Currently Amended): The color image processing apparatus according to claim

1, further comprising a color generation processing circuit having a line memory for obtaining

predetermined color image signals based on image signals from said color image pickup device,

and said fault pixel detecting means using said line memory for the color generation processing

circuit also as the line memory for a fault pixel detecting circuit.

Claim 7 (Original): A color image processing apparatus for detecting and correcting fault

pixels in a color image pickup device having a plurality of pixels each with a correspondingly

disposed filter device of color filter having a plurality of filter devices respectively of

predetermined colors, said color image processing apparatus comprising:

means for, among an observed pixel and a plurality of pixels adjoining to the observed

pixel and having correspondingly disposed filter devices of colors not identical thereto, forming a

plurality of pixel group patterns having different arrangement of plurality of pixels including the

observed pixel;

means for operating to obtain identical color for the pixel group patterns based on signals

obtained from the respective pixels of each pixel group pattern formed at the pixel group pattern

forming means; and

fault pixel detecting means for detecting pixel group pattern including fault pixel by

establishing among the pixel group patterns a correlation of the signals of each pixel group

pattern obtained by the means for operating to obtain identical color.

Claim 8 (Original): The color image processing apparatus according to claims 7, further

comprising a color generation processing circuit having a line memory for obtaining

predetermined color image signals based on image signals from said color image pickup device,

and said fault pixel detecting means using said line memory for the color generation processing

circuit also as the line memory for fault pixel detecting circuit.

Claim 9 (New): The color image processing apparatus according to claim 1,

wherein said fault pixel detecting means establishes a correlation among pixel signals

respectively with respect to a first direction and with respect to a second direction

different from the first direction along an arrangement of consecutive ones of identical color

and determines as fault pixels those pixels which have been detected as defect both in the

first direction and in the second direction.

Claim 10 (New): A color image processing apparatus comprising a fault pixel

detecting section for detecting fault pixels in a color image pickup device having a plurality

of pixels each with a correspondingly disposed filter device of color filter having a

plurality of filter devices respectively of predetermined colors, said fault pixel detecting

section comprising:

a first direction defect detector for detecting pixel defect along an arrangement in a

first direction of consecutive ones of identical color;

a second direction defect detector for detecting pixel defect along an arrangement in

a second direction different from said first direction of consecutive ones of identical color;

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and

a fault pixel determining unit for determining as fault pixels those pixels which have been detected as defect both at the first direction defect detector and at the second direction defect detector.

Claim 11 (New): A color image processing method for detecting and correcting fault pixels in a color image pickup device having a plurality of pixels each with a correspondingly disposed filter device of color filter having a plurality of filter devices respectively of predetermined colors, said method comprising the steps of:

detecting fault pixels by establishing a correlation among pixel signals along an arrangement of consecutive ones of identical color; and

correcting pixel signals corresponding to the fault pixels detected at the detecting step.

Claim 12 (New): A color image processing method for detecting fault pixels in a color image pickup device having a plurality of pixels each with a correspondingly disposed filter device of color filter having a plurality of filter devices respectively of predetermined colors, said method comprising the steps of:

detecting pixel defect in a first direction and pixel defect in a second direction different from the first direction of an arrangement of consecutive ones of identical color; and

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determining as fault pixels those pixels which have been detected as defect both it the first direction and in the second direction at the detecting step.